

INTERNATIONAL INDIAN SCHOOL BURAI DAH
STD VIII- (TERM I) - MATHS WORKSHEET# 11

2022-2023

L-11 Mensuration

1. Find the area of the square having perimeter 68cm.
2. The area of a trapezium is 480m^2 with one of its parallel side 20m and distance between two parallel sides is 15m. Find the length of the other parallel side.
3. The area of a rhombus is 240cm^2 and one of its diagonal is 16cm. Find the other diagonal.
4. A diagonal of a quadrilateral is 28.4cm long. The perpendicular to this diagonal from the opposite vertices are of lengths 7.2cm and 8.8cm. Find the area of the quadrilateral.
5. Find the height of a cylinder whose radius is 7cm and total surface area is 968cm^2 .
6. How many cubes of edge 3cm can be cut out of a cube of edge 24cm.
7. The length of a road roller is 2m and the diameter of its edge is 50cm. It takes 700 revolutions to level a ground. Find the area of the ground.
8. A cuboidal oil tin is 100cm x 30cm x 80cm. Find the cost of tin required for making 30 such tins at Rs 25 per m^2 .
9. Find the capacity of water tank in liters whose dimensions are 4.2m, 3m and 1.8m.
10. The volume of a cuboid is 1989cm^3 while its length and breadth are 17cm and 13cm respectively. Find the height of the cuboid.
11. A rectangular paper of width 14cm is rolled along its width and a cylinder of radius 20cm is formed. Find the volume of the cylinder.
12. The area of a rhombus and that of a square are the same. The side of the square is 6cm and one of the diagonal of the rhombus is 4cm. Find the length of the other diagonal.
13. In a trapezium, the length of one side is three times the other parallel side. If area of the trapezium is 48cm^2 and height is 3.2cm, find the length of the two parallel sides.
14. The area of a trapezium with equal non-parallel sides is 168m^2 . If the lengths of the parallel sides are 36m and 20m, find the length between the non-parallel sides.

ANSWERS

1) 289cm^2	2) 44m	3) 30cm	4) 227.2cm^2	5) 15cm	6) 512	7) 2200m^2
8) Rs 2010	9) 22680 L	10) 9cm	11) 17600cm^3	12) 18cm	13) 7.5cm & 22.5cm	14) 10m